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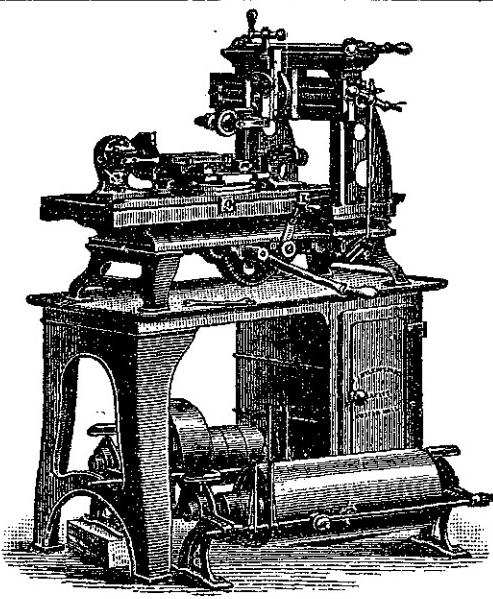
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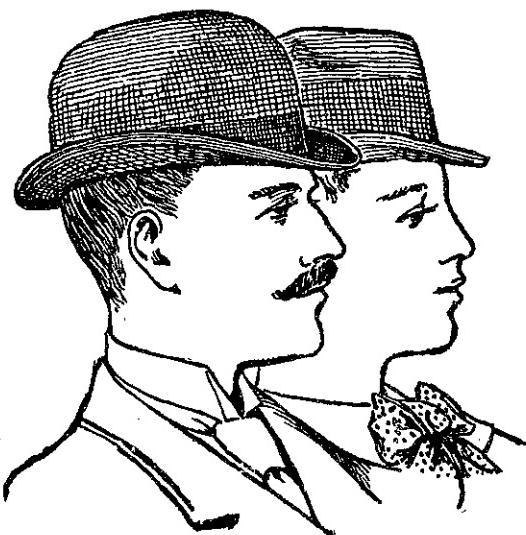
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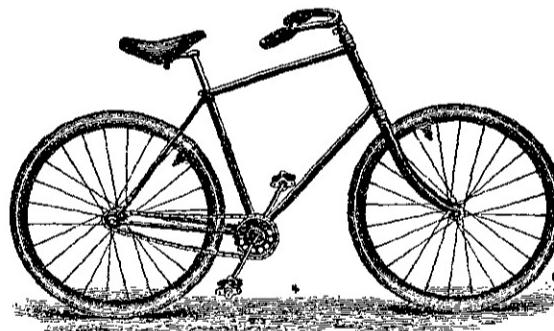
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# The Tech.

VOL. XIII.

BOSTON, OCTOBER 19, 1893.

NO. 3.

## THE TECH.

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

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Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

FRANK WOOD, PRINTER, 352 WASHINGTON STREET, BOSTON.



ITH the view of impressing more strongly upon all that THE TECH desires contributions from men not on the paper (whether of news or of original verse, from professor and

from student), the Board of Editors has decided to offer a prize of ten dollars to the person handing in the best original verse between now and Dec. 15, 1893. The conditions governing the competition are as follows: Only such contributions as are worthy of, or suitable for, publication in THE TECH shall be considered in awarding the prize; all matter contributed shall be returned to the writer unless wanted for publication; no editor on THE TECH Board can compete for the prize,

Prof. Arlo Bates, head of the English department, shall decide the competition. From force of circumstances it would be impossible to give a prize for locals, editorials, or stories. The last we are unable to print for lack of room. Locals are what we want chiefly in the way of contributions, but it would be difficult to award a prize for them. The Board hopes, by the prize offered, to improve, or rather to re-establish, the department of original verse which was at one time a bright feature of THE TECH. Besides this it is hoped that every student will realize that his help is wanted in making THE TECH a representative paper of the Tech man.

IT is with the kindest feelings toward the English department of the Institute that THE TECH records the assistance extended to it by Professor Bates and Mr. Dickinson. Both these gentlemen have expressed their willingness and intention to assist THE TECH in every possible way, and Professor Bates has kindly consented to judge the verse printed for the ten-dollar prize. It now remains for the students themselves to show by their personal interest and contributions that such kindness is appreciated.

HE time is now at hand when it is necessary to bring before the students the need of co-operation with the "Technique" Board of Editors. With the exception of the Freshmen, the students are well aware that during the past eight years "Technique" has been our college annual: a reference book of some two or three hundred pages, containing the officers of instruction, register of students, records and teams in athletics, fraternities,

local, professional, and musical societies, grinds, quotations, reminiscences of the year, besides interesting miscellaneous articles; all of which combine in making "Technique" a valuable work. In no better way is it possible to present all sides of Tech life to the public than through our annual. During the second term the Sophomore class elect their "Technique" editors; then throwing them on their own responsibility, expect to have published a book worthy of the Junior Class of M. I. T.

Since it has been decided by the present board to make the coming "Technique" a true representation of Institute life, contributions of all kinds, prose, poetry, songs, quotations, grinds, artistic contributions, advertisements, in fact anything worthy of preservation in our annual, are earnestly solicited, and must be forthcoming in order to insure success. To stimulate competition, a most generous list of prizes will be offered, partially given as follows: one for an Institute song (in case music and words are not by the same author, the prize will be equally divided); one for the best poem; one for the best collection of grinds, quotations and miscellaneous matter; first and second for the best design, both pen and wash drawings being acceptable; a cash prize of twenty-five dollars will be given for the best value in advertisements, the total amount being one hundred dollars or over. Unsuccessful competitors will receive ten per cent on all "ads." secured. The value of the other prizes, which will far exceed any offered by previous boards, will be announced later in connection with the complete list. To '97, and particularly to '96, we would add that now is the time for you to show what you can do in "Technique" line; from the contributors to "Technique" the members of the succeeding board, especially of the artistic staff, are usually selected. Senior and Junior should need no urging to assist in an undertaking the good influence of which is so well known.

THOSE who have the interests of our football team at heart, need feel no discouragement at the result of the first game,—that with Harvard. When the facts are considered that our men had been practicing little over a week, that our line was very light, and especially that one end had played football only three times in his life before bucking against Stephenson, then indeed does the score, 34-0, seem wonderfully small. Amherst was beaten 32-0; and if the opinion of some Harvard men may be taken, Harvard and Tech played a better game than did Harvard and Amherst. Unfortunately, Manahan, Clark, and Cushing were hurt, Clark quite seriously. Manahan had a bone broken in his hand. This crippled our team for the Amherst game; but plenty of determination remains.

#### Should the Technical School be Separate From or Connected With the University?

PROFESSOR SHALER, in the August *Atlantic*, states that at the time Humboldt planned the University of Berlin, higher education was a simple problem, the technical sciences being regarded as mere crafts. The French Revolution brought them somewhat into prominence, and ever since they have claimed more and more attention; but the tendency is still to regard technical instruction as something below university grade.

The plan has been to give the needed instruction in special technical schools where there has been little attempt to associate the new arts with the old learning. Much of the idea of disparity being an inheritance from feudal times, perhaps it was only natural that the first attempt to break the lines should be in this country. It was the founding of the Lawrence Scientific School at Harvard.

The selection was advantageous, because of the liberal spirit which pervades the institution and the well-known earnestness with which it sets about new projects. For twenty years

the school attracted much attention, and the success of its graduates led other universities to adopt the plan. Soon no American university was complete without its school of applied science. It would seem that the question of technical instruction was settled; but the advocates of the technical school were still active, and the success in mere professional work obtained by their graduates has led to the conclusion that technical schools can best accomplish their work when isolated. May not this be a mistake?

Up to the present time the university has been the most perfect agent for putting accumulated knowledge within reach of the student, for the administration of the university is an essential point. A good administrative board is difficult to obtain; but a university, from its very nature, is much more likely to get one than is a technical school. The latter will obtain men who are limited to a knowledge of their professions, and so become narrowing in their influence. Professor Shaler then cites the failure of isolated law and medical schools, and predicts a like result for the technical schools. He next says that in the technical school the student will not come in contact with men who are to follow varied walks in life, and who pursue knowledge for its own sake, and not for money. Here he loses a broadening influence.

In the following number President Walker says that Professor Shaler's article is in effect a charge that those connected with technical schools are offenders against higher education. If the charge be proven, technical schools should rush into the arms of the nearest university.

The first argument for the technical school is found in the history of Harvard's scientific school. The school was founded under very fortunate conditions,—a good endowment and a noble name, associated with our nation's oldest university, and located in the heart of a great manufacturing district; yet the school

graduated twice as many men in the first half of its history as its last half. Meanwhile, with poor endowments, and in spite of prejudice, technical schools have grown up and won praise from representatives of the old education.

President Walker admits the difficulty a technical school has in obtaining a good administrative board; but maintains it is not an insuperable one, and, further, that it is more germane to the best interest of the school to have men, deeply interested in their work, who unaffectedly respect the students with whom they have to deal. The lack of this feeling may explain the comparative failure of some of the university technical schools. Professor Shaler admits that technical instruction is still regarded as below university grade, and until this feeling has been entirely removed, technical instruction should remain in the hands of its friends.

The idea that because a man is at some time to enter a medical or divinity school he confers some special flavor to physics and chemistry, is far fetched. It can only be sustained in the manner unwittingly indicated by the Harvard writer, who speaks of a "truly academic atmosphere" as "one in which knowledge and a capacity for inquiry are valued for their own sake, and are not measured by uses in economic employment." The answer to this fling at technical education is, that a student intellectually honest and zealous of investigation finds educational value in the appliance of science, because it gives object to his effort and pleasure in his progress.

The curriculum offered by technical schools has been narrow in the past, because of small endowments, but this objection is rapidly being removed. The advantage of atmosphere may, to a certain extent, be with the university, but the history of the smaller colleges shows that in a truer sense the student makes his own atmosphere. The zeal with which technical students apply themselves to their work would benefit the university, but it is

not so clear that the frivolities of college life would benefit the technical student. Finally, it is better for the technical student to be by himself than to be where he is distinguished by his stained fingers and laboratory clothes,—to be where he is respected, than where snobbishness makes odious comparisons.

#### The Society of Arts.

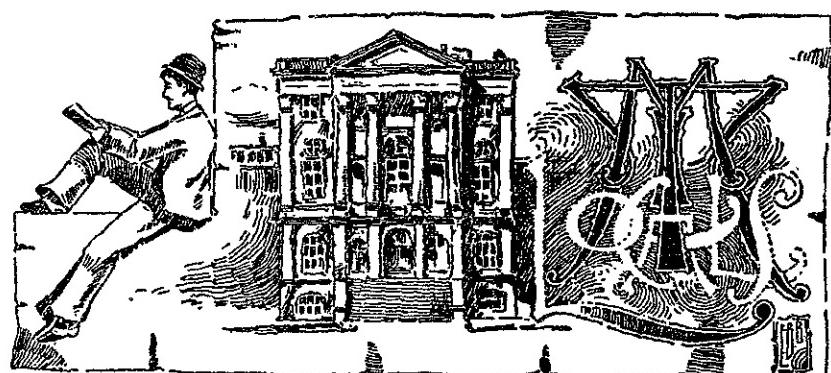
THE first semimonthly meeting of the Society of Arts was held Thursday evening, October 12th. The following gentlemen were elected members of the Society: Mr. W. B. Snow, Mr. W. A. Johnston, Mr. F. A. Wilson, Mr. J. I. Solomon, and Mr. E. O. Woodward. Of these five men the first four are graduates of the Institute.

After the election of members, an amendment to the by-laws was adopted, reducing the annual assessment from five to three dollars; this amount also to include subscription to the *Technology Quarterly*, published by the Society.

The following papers were next read, by title: "The Experimental Hydraulic Laboratory of the M. I. T.," by Prof. Dwight Porter; "Methods and Results Obtained in Making Germicide Efficiency Tests of a Disinfectant for Railway Sanitation," by Prof. W. T. Sedgwick; "Experiments on the Excursion of a Telephone Diaphragm," by Prof. Charles R. Cross and Mr. Henry Phillips. Professor Lanza then read a paper on "Engineering Education," in which he outlined the studies necessary and desirable for the best training of students in Engineering.

The *Technology Quarterly*, with its printed papers, including a paper on college athletics by President Walker, will appear about November 1st.

It is highly desirable that graduates should identify themselves with the Society in order to benefit Technology by the advantages of a working alumni which might thus be formed. Students at the Institute will find the *Technology Quarterly* instructive and useful.



The Freshman Class need a blackboard. A class assessment will bring it.

Try for the prize offered by THE TECH for original verse. You are a born poet.

The Mining library has completed its sets of "Stahl und Eisen" and of "Thonindustrie-Zeitung."

There will be a meeting of the Class of '96 in Room 11, Rogers, on Saturday, October 21st, at 12 M.

The annual election of officers for the Junior class occurs to-day, Thursday, at 1 P. M. Every member should attend.

*All those who play the mandolin and are interested in forming a club, should address Box 221, Cage, in regard to the matter.*

The weather is fine, the roads dry and hard, yet few bicycles are seen about Tech doors. The bicycle club needs rejuvenating.

The Freshmen would do well to look into XIII., the new course. As yet it is hardly crowded. From the Juniors it takes only six men.

Mr. H. E. Davis was elected a member of the artistic staff of "Technique." The election of the third member was deferred until a later date.

The Junior chemical eleven is open for engagements. Several dates have already been arranged, but the teams are not yet ready for publication.

Mr. H. K. Turner, '95, sailed last week for Europe, where he will spend a year in travel with friends. He expects to resume his work in Tech next year.

Once more the clock in Rogers corridor warns the laggard of the fleeting hour. Confidence is restored in finding that necessary article on service again.

During the past week the Freshmen have been measured for their uniforms, and are now waiting patiently for the time to come when they can appear in the new attire.

In the Applied Mechanics Laboratories an important series of tests upon the efficiency of Jacks is being conducted. The effect of various kinds of lubrication is being observed.

The results of the first run of the Fruevanner were very satisfactory. The running samples of the pulp flow to the vanner, and the tailings from the vanner showed the work to be perfect.

The Freshmen assembled in the gym. last week, where they received their arms and accouterments for the coming year. Undoubtedly the private drill exhibitions will be well attended.

The Electrical Engineer of October 11th, under "College Notes," speaks of the pamphlet recently issued by Course VI. Then follows a synopsis of the Course, its methods, equipment, and standards.

William A. Johnston, who was an assistant in the M. E. Laboratory last year, has charge of the Applied Mechanics Laboratory this year. Work in the Applied Laboratory begins sometime before the end of this month.

The large Physics lecture room has been enlarged and improved. Heretofore it has always been crowded to its utmost capacity, which fact, together with hard seats, always made it hard work to take any interest in a lecture.

Mr. H. G. Pearson is to be found in Room 33, Rogers Building, from 1.30 to 3.00 P. M., on Mondays and Fridays. Men taking first year English may consult him during those hours about their themes or any work of that department.

The Banjo Club is practicing twice a week. The same beautiful, expressive work of last year will be expected of them this year, as nearly all their old men are back. They appear with the Glee Club, in Music Hall, Nov. 15th.

The engagement is announced of Mr. Frederick C. Blanchard, who has been president of the class of 1891 during every year but one of its existence. The Senior statistician found that Mr. Blanchard was the most popular member of the class.

The Photographic Society has elected the following officers for the year: President, E. Johnsone Loring, '95; Vice President, Azel Ames, '94; Secretary, W. H. Sayward, '94; Treasurer, H. R. Barton, '94; fifth member of the Executive Committee, B. DuPont, '94.

Several times THE TECH has used the term "Mechanical Engineering Laboratories" in a way, perhaps, to confuse the uninitiated. A better name would be simply Engineering Laboratories, since the department covered by the former title includes the laboratories used by several courses other than the mechanicals.

Mr. Harold Meade Mott-Smith, '94, known to most of us as THE TECH's and "Technique's" artist, as well as a 'cello player of no ordinary ability, is now in Paris making a specialty of designing. His taste lies in that direction rather than in pure architectural work; hence his decision to spend three years abroad to develop the talent which he undoubtedly possesses.

The Glee Club is rapidly getting into shape under the efficient training of Mr. Geo. L. Osgood. Some splendid new material has been brought out, and the average ability of the men is much higher than last year. With such training as the club is now receiving, fine work will be the inevitable result. The first appearance of the club will be Nov. 15th, assisting in a concert in Music Hall.

A most interesting lecture was delivered Wednesday evening, October 11th, in Hun-

tington Hall, to an audience remarkable for the number of Armenians it contained. The Rev. Mr. Horton introduced the speaker, Prof. Nimass Tcheraz, of King's College, London. After a talk for an hour upon the "History, Religion, and Literature of Armenia," a number of good lantern views were shown.

The recent yacht races attracted several Tech men to New York. It may be pleasing for some to know that Mr. Nat Herreshoff, of that world-famous firm which has built such boats as the Vigilant, Navahoe, Now Then, and a score of others more or less famous, was once a student at Technology. What may not be in store for our present undergraduates who now have a special course devoted to naval architecture?

Among the many distinguished foreigners who have recently visited Technology, are Professor Grassi of Milan, Professor Ferraris of Turin, Professor Reuleaux of Berlin, Professor Escher of Zurich, Professor Kreuter of Munich, and M. Arbel, French Commissioner at the World's Fair. Most all the European professors have readily admitted that Technology is far better equipped for practical engineering instruction than the foreign universities. However, science is studied abroad more for its own sake than from the mercenary motives which are apt to inspire all American undertakings.

After considerable difficulty in ejecting the obnoxious Sophomores, the first regular meeting of the Freshman Class was called to order by chairman R. F. Hosford, last Friday afternoon. Mr. D. C. Campbell was elected temporary secretary. The report of the constitution committee was then heard and accepted. The constitution was read, and, in so far as the various disturbances caused by the still present Sophs would allow, was adopted by articles. When only four articles had been completed it was decided to read the

whole constitution; by this time darkness put an end to the meeting, and the class adjourned.

Several interested members of the Class of '95 attended the meeting held on Thursday, to hear the nominations for class officers. These were posted as follows: President, T. B. Booth; Vice President, M. L. Fish, A. D. Fuller, S. S. Sadtler, C. F. Tillinghast; Secretary, F. W. Belknap, M. L. Fish, E. H. Huxley, I. A. Nay; Treasurer, C. G. Williams, A. L. Canfield, F. W. Fuller, L. K. Yoder; Directors, J. W. Thomas, E. H. Huxley, W. S. Watkins, R. C. Clark, C. G. Williams, W. C. Powers, F. B. Masters. When the nominations were presented Mr. Booth withdrew his name. Objections were made, but these were overruled by the chair, and several other nominees immediately withdrew their names. After voting to elect the members of the Institute Committee on the day for the annual election of officers, the meeting adjourned.

After considerable delay in obtaining a quorum, '94 assembled in Room 11, Rogers, last Saturday noon, for election of Senior officers. Mr. Stevens moved that a quorum should consist of fifteen per cent of the class membership, instead of fifty members as heretofore. This was carried, after first suspending the constitution by unanimous vote. The first ballot made Messrs. Meade, Dickey, and Price nominees for the presidency, of whom Mr. Raymond B. Price was then elected President. The next officer to be elected was the Vice President, and Mr. Colbert A. MacClure was chosen. Mr. Charles W. Dickey was then re-elected Secretary, and Mr. S. Henry Blake became Treasurer. For the three members of the Executive Committee, Mr. Thomas P. Curtis, Mr. Arthur A. Clement, and Mr. William H. King were elected. Mr. Charles A. Meade and Mr. Robert K. Sheppard were then elected Senior members of the Institute Committee, to act with the class President, and the meeting adjourned.

**Harvard, 34; Tech, 0.**

THE first game of the season was played with Harvard last Wednesday, and despite the fact that several of the men were new to their positions, the score was lower than many expected.

Usually when Tech plays Harvard it rains most dismally ; but this year Dame Nature failed to turn on the waterworks, and the men showed their appreciation of the perfect afternoon by turning out in large numbers.

The game began at 4.05, Tech having the ball. On the kick-off the ball was fumbled, and Johnson dropped on it. Dunlap then carried the ball to Tech's 35-yard line. A wedge failed to gain, and Dunlap made five yards.

After one down the ball was passed to Brewer, who dashed around the left end, and, aided by efficient blocking, carried the ball over the line for a touchdown in four and three quarters minutes. Corbett kicked the goal. Score, 6-0.

Tech made five yards on wedge. Curtis failed to gain. Gained five yards for off-side play, which was increased to eight by a wedge. Andrews kicked to Harvard's 20-yard line, and a return kick sent the ball to Tech's 50-yard line. Andrews kicked again after three downs. Brewer caught and carried the ball to the center of the field. The ball went to Tech for holding, but was immediately lost on a fumble. Repeated rushes by Corbett and Dunlap carried the ball to Tech's 10-yard line, where Brewer took the pigskin over the line for the second touch-down. Goal by Corbett.

Tech failed to gain in three downs, and Andrews kicked. Rushes by Corbett and Dunlap took the ball to Tech's 20-yard line, where the ball went to Tech for holding. Andrews kicked. Rushes by Brewer and Dunlap took the ball to the 20-yard line, and Brewer carried it over. Corbett kicked goal.

In the second half Clark retired from the game with an injured back. Thomas took his

place at half back, and Humphreys went in as quarter back.

A wedge failed to gain, and Tech then lost the ball, but recovered it for holding. Andrews kicked to Harvard's 50-yard line. The ball was then passed to Dunlap, but Thomas broke through and tackled him in his tracks. Corbett kicked to 15-yard line. Harvard got the ball on a fumble. Rushes by Dunlap and Corbett took the ball within one foot of the line, where it was lost to Tech. Andrews kicked to 10-yard line. Dunlap caught and carried the ball over for a touchdown. No goal. Score, 28-0.

Tech gained five yards through center. Andrews kicked to 40-yard line, and a return kick sent the ball to Tech's 35-yard line. Rushes by Dunlap and Corbett carried the ball to Tech's 15-yard line, when Dunlap carried it over. Goal by Corbett. Score, 34-0.

Time was called with the ball in the middle of the field. The features of the game were Andrews' punting and Curtis' tackling.

The teams lined up as follows: Harvard—rushers, Emmons, Baldwin, Acton, Lewis, Mackie, Johnson, Stevenson ; quarter back, Fairchild ; half backs, Corbett, Dunlap ; full back, Brewer. Tech—rushers, Owen, Mayo, Whiting, Manahan, Cushing, Simonds, Underwood ; quarter back, Thomas (Humphreys) ; half backs, Curtis, Clark (Thomas) ; full back, Andrews. W. A. Brooks, Harvard, '87, referee ; P. H. Thomas, Tech, '93, umpire.

Attendance, 2,200.

**Amherst, 14; Tech., 6.**

SATURDAY, October 14th, Tech faced Amherst on Pratt Field, Amherst. Neither side had their strongest team. Manahan, Clark, and Underwood, of Tech, and Haskell and Goodale, of Amherst, were not playing. Tech had the ball when time was called, at 3.15. Tech did not use the usual V, but the entire team blocked for Curtis, who made a fine run of thirty-five yards well out toward

tington Hall, to an audience remarkable for the number of Armenians it contained. The Rev. Mr. Horton introduced the speaker, Prof. Nimass Tcheraz, of King's College, London. After a talk for an hour upon the "History, Religion, and Literature of Armenia," a number of good lantern views were shown.

The recent yacht races attracted several Tech men to New York. It may be pleasing for some to know that Mr. Nat Herreshoff, of that world-famous firm which has built such boats as the Vigilant, Navahoe, Now Then, and a score of others more or less famous, was once a student at Technology. What may not be in store for our present undergraduates who now have a special course devoted to naval architecture?

Among the many distinguished foreigners who have recently visited Technology, are Professor Grassi of Milan, Professor Ferraris of Turin, Professor Reuleaux of Berlin, Professor Escher of Zurich, Professor Kreuter of Munich, and M. Arbel, French Commissioner at the World's Fair. Most all the European professors have readily admitted that Technology is far better equipped for practical engineering instruction than the foreign universities. However, science is studied abroad more for its own sake than from the mercenary motives which are apt to inspire all American undertakings.

After considerable difficulty in ejecting the obnoxious Sophomores, the first regular meeting of the Freshman Class was called to order by chairman R. F. Hosford, last Friday afternoon. Mr. D. C. Campbell was elected temporary secretary. The report of the constitution committee was then heard and accepted. The constitution was read, and, in so far as the various disturbances caused by the still present Sophs would allow, was adopted by articles. When only four articles had been completed it was decided to read the

whole constitution; by this time darkness put an end to the meeting, and the class adjourned.

Several interested members of the Class of '95 attended the meeting held on Thursday, to hear the nominations for class officers. These were posted as follows: President, T. B. Booth; Vice President, M. L. Fish, A. D. Fuller, S. S. Sadler, C. F. Tillinghast; Secretary, F. W. Belknap, M. L. Fish, E. H. Huxley, I. A. Nay; Treasurer, C. G. Williams, A. L. Canfield, F. W. Fuller, L. K. Yoder; Directors, J. W. Thomas, E. H. Huxley, W. S. Watkins, R. C. Clark, C. G. Williams, W. C. Powers, F. B. Masters. When the nominations were presented Mr. Booth withdrew his name. Objections were made, but these were overruled by the chair, and several other nominees immediately withdrew their names. After voting to elect the members of the Institute Committee on the day for the annual election of officers, the meeting adjourned.

After considerable delay in obtaining a quorum, '94 assembled in Room 11, Rogers, last Saturday noon, for election of Senior officers. Mr. Stevens moved that a quorum should consist of fifteen per cent of the class membership, instead of fifty members as heretofore. This was carried, after first suspending the constitution by unanimous vote. The first ballot made Messrs. Meade, Dickey, and Price nominees for the presidency, of whom Mr. Raymond B. Price was then elected President. The next officer to be elected was the Vice President, and Mr. Colbert A. MacClure was chosen. Mr. Charles W. Dickey was then re-elected Secretary, and Mr. S. Henry Blake became Treasurer. For the three members of the Executive Committee, Mr. Thomas P. Curtis, Mr. Arthur A. Clement, and Mr. William H. King were elected. Mr. Charles A. Meade and Mr. Robert K. Sheppard were then elected Senior members of the Institute Committee, to act with the class President, and the meeting adjourned.

**Harvard, 34; Tech, 0.**

THE first game of the season was played with Harvard last Wednesday, and despite the fact that several of the men were new to their positions, the score was lower than many expected.

Usually when Tech plays Harvard it rains most dismally ; but this year Dame Nature failed to turn on the waterworks, and the men showed their appreciation of the perfect afternoon by turning out in large numbers.

The game began at 4.05, Tech having the ball. On the kick-off the ball was fumbled, and Johnson dropped on it. Dunlap then carried the ball to Tech's 35-yard line. A wedge failed to gain, and Dunlap made five yards.

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the right. This was followed by good gains, and the ball reached Amherst's 12-yard line, and it looked as though Tech would score. Here, however, Amherst held for four downs, and received the ball. Converse made a run of forty yards, which was followed by steady gains by bucking the line, and long runs by Converse and Hawers. Yard by yard Tech was forced back, and finally Hawers was pushed over the line for the first touchdown. Pratt kicked a goal. Score, 6-0. Time, ten minutes.

Tech started in the same way as before, Curtis gaining twenty yards. Good runs by Curtis and Andrews and hard bucking by Osgood brought the ball close to Amherst's goal. Andrews was soon sent through for a touchdown. Andrews punted out to Thomas and then kicked a goal. Score, 6-6.

Amherst started with a good gain, and worked the ball quickly down the field. Tech took a brace, and Converse was downed in his tracks by Thomas. Hawers made a gain of five yards, but was stopped in good style by Osgood. Tech now held for three downs, Mayo doing good work. A fumble cost Amherst the ball, Andrews falling on it on Tech's 5-yard line.

At once the good offensive work of Tech showed, and the ball was brought to the center of the field. A wind squall came up and helped Andrews to make a magnificent punt. The ball went sailing through the air, high over the heads of the Amherst backs, and rolled over the line. Amherst made a touchback, and it was Amherst's ball at their 25-yard line. In three downs Amherst failed to gain. At this moment the referee called time, but how he made the thirty minutes he claimed, would be hard to tell.

When the teams lined up for the second half, a shower had made the ground very wet and slippery. Amherst opened with a ten-yard gain. Tech held well, and Deering attempted to kick, but fumbled, and Mayo fell on the ball. Tech worked the ball to Am-

herst's 20-yard line, but was here held for four downs. Amherst slowly regained the lost ground, Converse making a long run. Amherst kicked near the center of the field, and Rosa fell on the ball when Osgood should have had it. Hawers made a run of twenty-five yards, and soon after Deering was pushed over the line. Pratt failed to kick a goal. Score, 10-6.

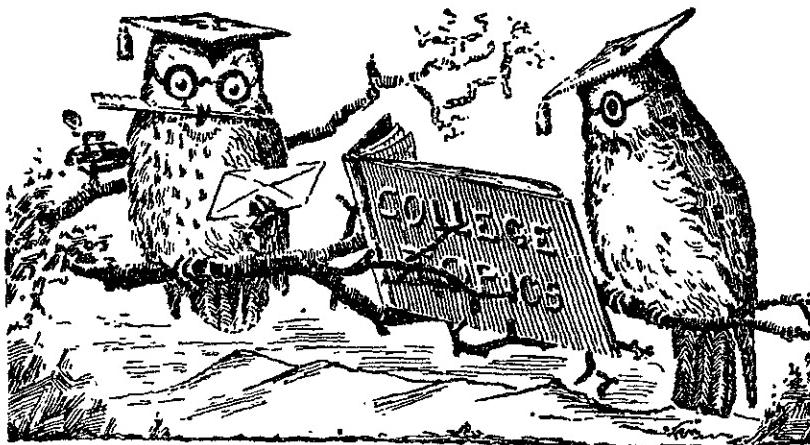
Tech made ten yards on the same play as before, but soon after was held for four downs. Barnes ran to the right for twenty-five yards, but was forced outside and tackled in good style by Simonds. Good tackles were made by Rockwell and Robinson, and Amherst was obliged to kick. Rosa again fell on the ball well down in Tech's territory. Soon after, Hawers went across for Amherst's third touchdown. Pratt again failed at goal. Tech made nine yards, but was soon held for three downs. Andrews punted, and it was Amherst's ball. Amherst made a bad fumble, but fell on the ball when Tech should have got it. Tech played sharp, and Amherst kicked. Time was called with the ball in the center of the field.

The players were :—

Amherst—rushers, Russell, Blagden, Penny, Kimball, Cauthers, Tyler, Rosa; quarter back, Pratt; half backs, Converse, Hawers (Barnes); full back, Deering. Tech—rushers, Owen, Mayo, Robinson, Schmitz, Whiting, Simonds, Rockwell; quarter back, Thomas; half backs, Curtis, Osgood; full back, Andrews. Referee, Mr. W. A. Talcott, of Amherst, '93. Umpire, Mr. A. A. Highlands, of Harvard.

The game was interesting to watch, as many long runs and good individual plays were made. Both sides lacked in team work, although Tech much more than Amherst. Tech did well at offensive work, but could not seem to prevent Amherst from making gains all along the line. Tech played a game almost free from fumbles, but was slow to take advantage of many made by Amherst. Individually, almost every man did good work, and played a spirited game. Curtis was by far the best ground gainer, and made several beautiful runs, but still tackles too

high. Osgood was strong at bucking the line, but was a little slow on getting the ball from Amherst's kicks. Andrews played a very steady game, running well, and tackling hard several times at critical points. In the tackling Thomas led, as usual, and Mayo and Simonds showed up well. For Amherst, Converse and Barnes made the most brilliant runs, while Tyler was easily the best tackler.



A football league has been formed between Rutgers, Stevens, and Lafayette, to be called the Middle States Football League.

The final matches in both the singles and doubles of the Intercollegiate Tennis Tournament have been finished, with the result that Budlong and Chace, of Brown, won the doubles and Chace the singles. At a meeting of the Tennis Association, October 2d, the following officers were elected for the ensuing year: President, D. W. Candler, of Columbia; Vice President, M. Chace, of Brown; Secretary and Treasurer, A. E. Foote, of Yale.

Recent football games among the colleges have resulted as follows:—

September 30th, Amherst 14; Trinity, 14. Bowdoin, 10; Exeter, 10. University of Illinois, 60; Wabash, 6. Lehigh, 52; Dickinson, 0. October 4th, Yale, 18; Brown, 0. Stevens, 10; Crescent A. C., 8. Amherst, 26; Mass Agricultural, 0. Williams, 14; Mt. Hermon, 0. Dartmouth, 6; Harvard Second, 6. Harvard, 54; Exeter, 0. Andover, 18; Bowdoin, 0. University of Penn., 74; Gettysburg College, 0. October 7th, Harvard, 32; Amherst, 0.

Johnson, who played with us last year against Harvard, lined up against us this year in the M. I. T.-Harvard game as right tackle. He played well.



The annual fall meeting of the Athletic Club was called by President Lord at one o'clock on October 10th. Secretary Hurd read a letter from the Harvard Cycling Association proposing the arrangement of a series of bicycle races between Tech and Harvard. The matter was briefly discussed, and then left to the further decisive action of the Executive Committee. Hurd's record in the two-twenty low hurdles of  $26\frac{1}{2}$  seconds was then allowed to stand as the Institute record in that event.

The Varsity Track Athletic Team was discussed, and it was decided to allow the members of the team, who were chosen last May, to elect their captain from among their number. On account of the absence of '97 men, the election of a representative from the Freshman Class on the Executive Committee was postponed, and the meeting was adjourned.

The winter class-championship games are open only to members of the Athletic Club.

The Freshmen-Sophomore football game and cane-rush takes place Monday, November 6th, on the South End ball grounds.

The Harvard Cycling Association is trying to arrange a set of races on track and road with the M. I. T. A. C. Unfortunately our men are out of training, but good races would result should our wheelmen decide to compete. The H. C. A. recommends two 10-mile road races and a track meet, the latter to take place on Holmes' Field the end of this month, the events to consist of two scratch, two handicap races, and a team race. With such men as Marmon, Clough, Taylor, Owen, Burns, and Sperry to represent us, Tech should accept the offer.



THAT was indeed a thrilling class meeting that '97 indulged in last week. Surely the Lounger's plea for class spirit was remembered on that occasion, for what but patriotism could hold the uneasy Freshman for an hour and a half? It is rumored that '96, as well, have healthy memories of the meeting, and already has the Hurd-le race become famous. What a kindly Sophomore was that who prescribed the construction of the all-important, soon-to-be-forgotten executive committee; and, forsooth, it was a thoughtful Freshman who argued for the ejection of Sophomores, else the upper class men might "look down on the Freshmen." The Lounger, too, finds occasion to regret that all may not be chairmen, "to say what they think," but would assure the Freshmen that they are all on the right track for political fame, while at the same time they are enjoying the advantage of excellent training for the cane rush to be.

The *Record* had it that four hundred Technology men turned out for the Tech-Harvard game; and the Lounger always takes off his hat to the *Record*. It was, nevertheless, a numerous and merry crew that crowded the cars, held down the bleachers, cheered the play, and at last departed in silence across the college quadrangle. Despite the score, it was a sandy game and promises well. Taken all in all, the Lounger was inspired to recall the gory, enthusiastic days of '87, when our now dusty banner appeared. With our present team and the support of the noble four hundred, shall we not again bring fame to Technology? Now is the time to push athletics. They are needed at Tech, if anywhere; and while the teams are hard at work let every man turn out for a daily run or regular gym. work. Lack of time is the poorest excuse; for has not experience shown that a man can do better work in the end with vigorous exercise for a backer? There is not one among us who would not be more a man for judicious athletic work. Do you doubt this,

'97? Go through the upper class rooms and see the sallow grind bending o'er his sore task, and take warning. If this does not suffice, seek the glass cage in Room 40, Rogers, and hold converse with Professor Dewey. When you are at last convinced that athletics at college are a necessity, as well as a pastime, and a road to fame, go to work yourself, and lend your personal support to the cause by your presence and your cheers at the games.

#### A REVERIE.

We roamed the wildwood, Heather and I;

We wandered hand in hand,  
Over the hills where the wild winds sigh,  
Under the trees where the dead leaves lie,  
Through the spiny pines and leafless vines  
Of a winter land.

The lambkins played on the hillocks green;  
We wandered on together:

We wandered on—it seems a dream—  
Where the violets bloomed by a silver stream,  
And buttercups brew their golden dew  
In summer weather.

The bluebells hung their heads in the dale,  
And Heather, she wondered why;  
Or the limbs of the weeping willow fell,  
Or the bumble bee had a sting in his tail,  
Or the sunshine wept when a rainbow crept  
Across the sky.

And Heather was sweet as a rose half blown,  
As shapely and wild as a fawn;  
No mortal a face more bright could own,  
Her golden hair outshone the sun,  
As I and Heather roamed together  
The world alone.

Oh childhood fleet, forever gone!  
Oh childhood, sweet to me,  
Come back! in thy low melodious song,  
When Heather and I in the golden dawn,  
With trusting feet roamed on in sweet  
Simplicity.

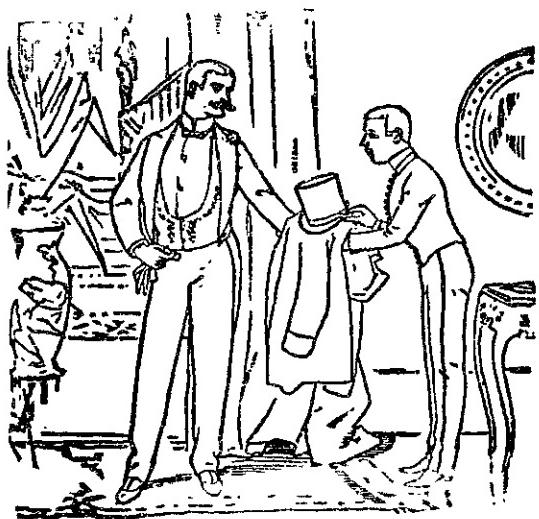
Come back, come back, oh careless day!  
Oh dream, come back to me!  
When I was free as the birds that sway  
In the trees, or the lambs on the green at play,  
And I and Heather roamed together  
Over the lea!

H. E. H., '94.

#### ONE FOR IGNATIUS.

Since that vexed question, "Bacon or Shakespeare?"  
Seems lately of interest to lack,  
Did Bellamy write "Looking Backward,"—  
Or was it by Eyesenbach?

J. H. G., '95.



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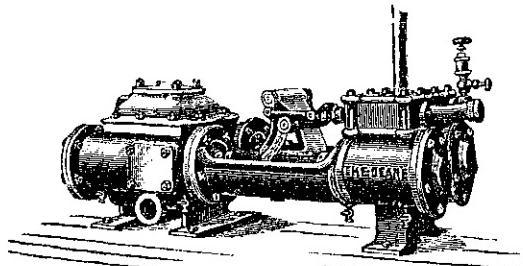
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